

# FIGURE 1

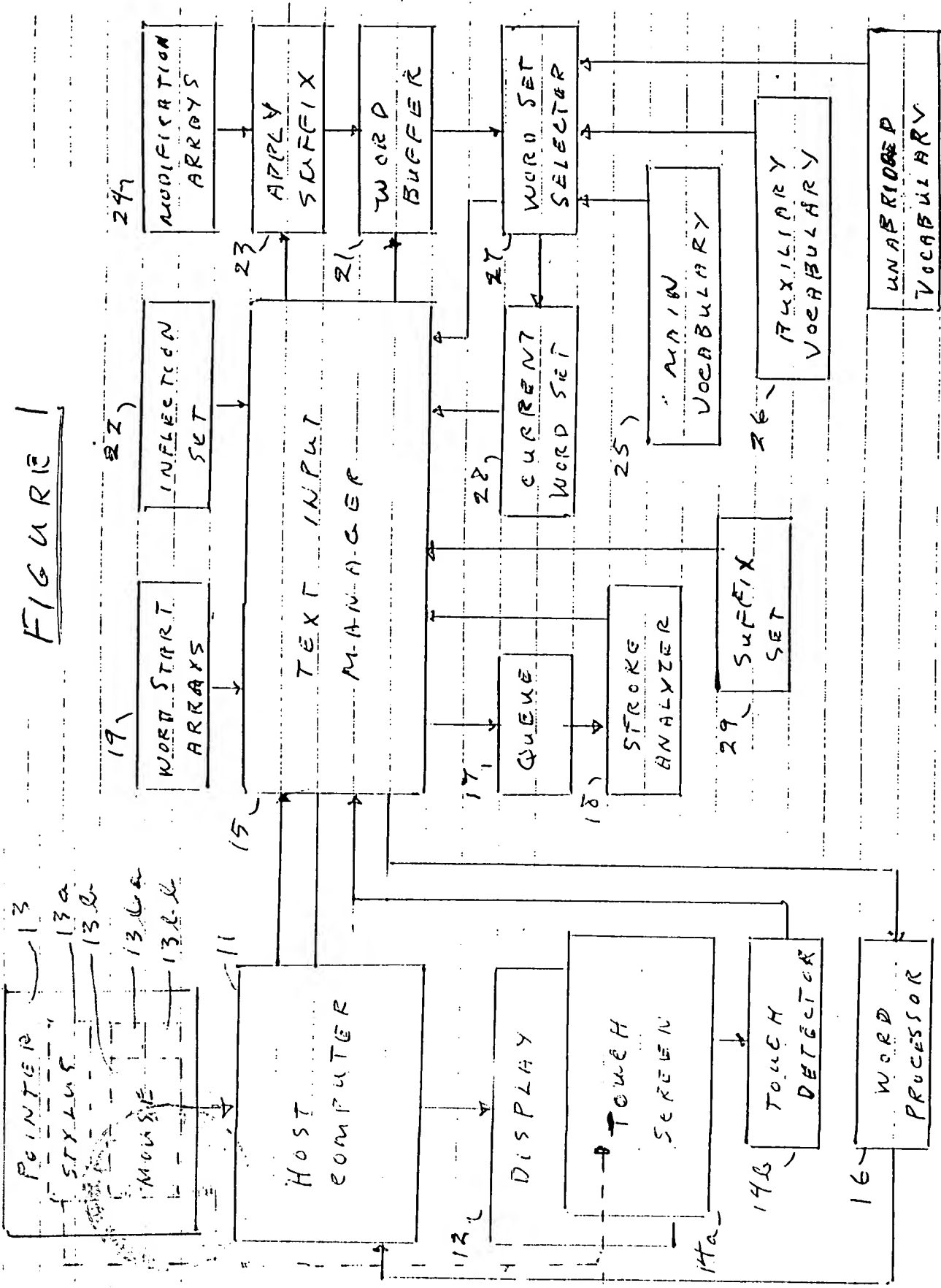


FIGURE 2A

|                                      |
|--------------------------------------|
|                                      |
|                                      |
|                                      |
| A a all and are as at B be but by    |
| C D do E F for from G go H have      |
| he I I if in is it J K L M me my     |
| N not no O of on or out P Q R        |
| S say she so T that the they this to |
| U up V W was we which who with       |
| X Y you Z 1 2 3 4 5 6 7 8 9 0        |

FIGURE 2B

A a act add all am and are as at B be but by C company control D dis do E end except  
 F for from G go H have he I I if in into is it J K L M me my  
 N not no O of on or out P Q R remember S say she so  
 T that the they to U un up V W was we which who will with X Y you Z  
 1 2 3 4 5 6 7 8 9 0

FIGURE 3A

|                                       |
|---------------------------------------|
|                                       |
|                                       |
| A d l n r s t B e i l o u y C e i o m |
| p n v r D e i o E n v x F e i l o r   |
| G e i l o r H e i o u I f n t v s t   |
| J K L e i o M e i o y N e i o o       |
| O f n r u P e i l o r s R e m i o     |
| S e h i l o t u y T e h h h i o r u   |
| U n p V i W e h h i o X Y Z           |
| 1 2 3 4 5 6 7 8 9 0                   |

FIGURE 3B

A c d f g a l l m a n d a r e a s a t B b e i l o r b u t b y C e h i l o [ m p n t v ] r u y  
 D e i d o r u y E d n v x y F e i l f o r f r o m u G e h i l n g o r u y H h e i o u y  
 I i f i n [ t v ] i s i t J K L e i o u M m e i o u m y N e i n o t n o u  
 O o f o n o r o u t P e h i l o r s u y Q R e [ m ] h i o u  
 S c e s h e i l s o p q t u w y T e t h a t t h e t h e y i t o r u y U n u p s V e i o  
 W w e w h i c h w h o i o r X Y Z 1 2 3 4 5 6 7 8 9 0

FIGURE 3C

A a act add after again all am and are as at away B back be big black both bring but by  
 C can certain child city close could [come company consider control convert] cry cut  
 D day develop differ do drive during dynamic E each educate end even except eye  
 F far few find fly for from full G game get ghost give go great gun gyro  
 H have he high how human hydro I I if in [into invent] is it J just K  
 know L last left like long luck lyric M may me might more must my  
 N nation new night not no number O of on one only or our out  
 P part people phone place pick point program put Q question  
 R rather real [remember] rhythm right room run rye  
 S say school see she since slow small snake so space square still such switch system  
 T take tell that the they time to try turn two type U un up use V value very view voice  
 W was we which who with would write X x-ray Y you Z zero 1 2 3 4 5 6 7 8 9 0

FIGURE 4

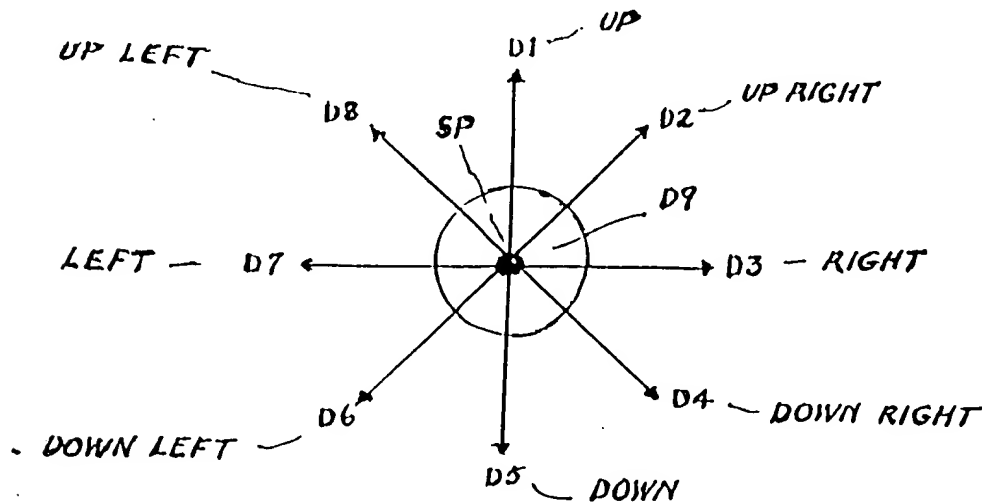


FIGURE 5A

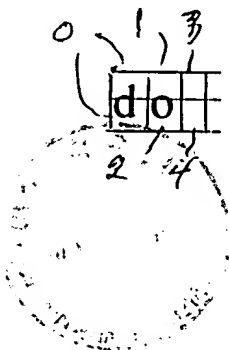


FIGURE 5B

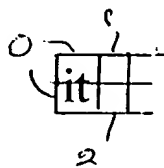


FIGURE 5C

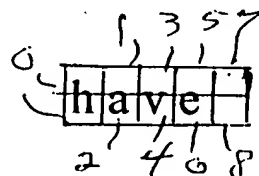


FIGURE 6

| Direction.  | D1    | D2    | D3    | D4              | D5                | D6     | D7    | D8      | D0 |
|-------------|-------|-------|-------|-----------------|-------------------|--------|-------|---------|----|
| SLS         | Cap   | CL    | V1    | V2              | Ltr               | ltrCap | LtrSx | CapSx   |    |
| SLS or SDEA | abc/a | def/e | ghi/i | jkl/l           | mno/o             | pqr/r: | stu/u | vwxyz/y |    |
| VFW         | s     | ed    | ing   | er              | est               | ly     | ness  | Sx      |    |
| Hop (VFW)   | ‘.’   | ‘,’   | ‘;’   | ‘:’             | ‘?’               | ‘!’    | Cpd   | Sx      | Cp |
| Digit       | digit | Ch1   | Ch2   | 1 <sup>st</sup> | w 1 <sup>st</sup> | teen   | ty    | Space   |    |
| CW or SD    | b     | c     | d     | f               | g                 | h      | j     | k       |    |
| CCW or EA   | m     | n     | p     | q               | s                 | t      | vw    | xz      |    |

FIGURE 7A

|      | D1      | D2      | D3       | D4   | D5   | D6 | D7 | Code              |
|------|---------|---------|----------|------|------|----|----|-------------------|
| be   |         | been    | being    |      |      |    |    | 20en              |
| do   | does    | did     | doing    | doer | done |    |    | 0es1id60ne        |
| go   | goes    | went    | going    |      | gone |    |    | 0es22went60ne     |
| have | has     | had     | having   |      |      |    |    | 2s2d              |
| he   | his     | him     | himself  |      |      |    |    | 1is1im1imself     |
| if   | if a/an | if the  | if that  |      |      |    |    | 170               |
| it   | its     | itself  |          |      |      |    |    | 20self            |
| say  | says    | said    | saying   |      |      |    |    | 21id              |
| she  | her     | hers    | herself  |      |      |    |    | 3her3hers3herself |
| they | their   | theirs  | them     | s-es |      |    |    | 1ir1irs1m1ms-ves  |
| we   | our     | ours    | us       | o-es |      |    |    | 2our2ours2us2o-s  |
| with | within  | without |          |      |      |    |    | 0in0out           |
| who  | whose   | whom    | whoever  |      |      |    |    | 0se0m0ever        |
| you  | your    | yours   | yourself | r-es |      |    |    | 0r0rs0rsel0rs-es  |

FIGURE 7B

|       | D1   | D2    | D3    | D4 | D5 | D6 | D7 | Code |
|-------|------|-------|-------|----|----|----|----|------|
| that  | than | this  | those |    |    |    |    | 175  |
| the   | then | there | these |    |    |    |    | 176  |
| which | what | when  | where |    |    |    |    | 177  |

FIGURE 7C

|       | D1 | D2 | D3 | D4               | D5      | D6        | D7      | D8    | Code |
|-------|----|----|----|------------------|---------|-----------|---------|-------|------|
| one   | 1  | `  | !  | 1 <sup>st</sup>  | first   | eleven    | hundred | Space | 181  |
| two   | 2  | _  | @  | 2 <sup>nd</sup>  | second  | twelve    | twenty  | Tab   | 182  |
| three | 3  |    | #  | 3 <sup>rd</sup>  | third   | thirteen  | thirty  | Ret   | 183  |
| four  | 4  |    | \$ | 4 <sup>th</sup>  | fourth  | fourteen  | forty   |       | 184  |
| five  | 5  | '  | %  | 5 <sup>th</sup>  | fifth   | fifteen   | fifty   |       | 185  |
| six   | 6  | /  | ^  | 6 <sup>th</sup>  | sixth   | sixteen   | sixty   |       | 186  |
| seven | 7  | \  | &  | 7 <sup>th</sup>  | seventh | seventeen | seventy |       | 187  |
| eight | 8  |    | 0  | 8 <sup>th</sup>  | eighth  | eighteen  | eighty  |       | 188  |
| nine  | 9  | {  | (  | 9 <sup>th</sup>  | ninth   | nineteen  | ninety  |       | 189  |
| ten   | 0  | }  | )  | 10 <sup>th</sup> | tenth   |           |         | ]     | 190  |

FIGURE 8A

|      |      |      |      |      |      |      |      |     |
|------|------|------|------|------|------|------|------|-----|
| Al   | Ble  | Ce   | Ed   | ee   | en   | er   | ess  | est |
| Hood |      | lc   | ing  | ion  | ish  | ism  | ist  |     |
| ity  | ive  | ize  | Less | like | ly   | Ment |      |     |
| N    | nce  | ness | nt   | Or   | our  | S    | ship |     |
| Teen | th   | ty   | Ward | Y    |      |      |      |     |
|      |      |      |      |      |      |      |      |     |
| Ace  | age  | ail  | ain  | ale  | all  | and  | ard  |     |
| are  | atch | ate  | Ead  | eal  | ear  | ell  | end  |     |
| Ice  | ide  | ight | ile  | ill  | ind  | ine  | ite  |     |
| Old  | ole  | one  | ore  | ose  | ound | Ure  |      |     |

FIGURE 8B

|    |    |    |      |    |     |      |    |
|----|----|----|------|----|-----|------|----|
| D1 | D2 | D3 | D4   | D5 | D6  | D7   | D8 |
| s  | ly | al | ally | ic | lty | ness | y  |

FIGURE 7D

|       | D1     | D2       | D3       | D4    | D5     | D6     | D7   | Code   |
|-------|--------|----------|----------|-------|--------|--------|------|--------|
| Stem  | s      | ed       | ing      | er    | est    | ly     | ness | 128 /0 |
|       |        |          |          | or    |        |        |      | 130    |
|       |        |          |          |       | ion    | ive    |      | 132    |
|       |        |          |          | or    | ion    | ive    |      | 134    |
|       |        |          |          |       | ment   | mental |      | 136    |
|       |        |          |          | or    | ment   | mental |      | 138    |
|       |        |          |          |       | nce    | nt     |      | 140    |
|       |        |          |          | or    | nce    | nt     |      | 142    |
|       |        |          |          |       | ncy    | nt     |      | 144    |
|       |        |          |          | or    | ncy    | nt     |      | 146    |
|       |        |          |          |       | al     | ally   |      | 150    |
|       |        |          |          | ic    | ical   | ically |      | 152    |
|       |        |          |          |       | ful    | fully  |      | 154    |
|       |        |          | ful      | fully | less   | lessly |      | 156    |
|       |        |          |          |       | ous    | ously  |      | 158    |
|       |        |          |          |       | ce     | cy     |      | 160    |
|       |        |          |          |       | ish    | hood   |      | 162    |
|       |        |          |          |       | erly   | ern    | ward | 164    |
|       |        |          |          |       | ism    | ist    | ize  | 166    |
|       |        |          |          |       | teen   | th     | ty   | 168    |
| Preps | a/an   | the      | that     | this  |        |        |      | 170    |
| Nouns | is/are | was/were | has/have | had   | having |        |      | 172    |
| any/  | how/   | one      | thing    | time  | way    | where  |      | 174    |

## FIGURE 8c

face lace mace pace race  
cage gage page rage sage wage  
bail fail hail mail nail pail sail tail wail vail  
gain lain main pain rain wain vain  
bale dale gale hale male pale sale tale vale  
ball call fall gall hall mall pall tall wall  
band hand land sand wand  
bard card hard lard pard ward  
bare care dare fare hare mare rate ware  
batch catch hatch latch match patch watch  
hate date fate gate hate late mate rate sate  
bead dead head lead mead read  
deal heal meal peal real seal teal weal veal zeal  
bear dear fear gear hear lear near pear rear sear tear wear  
bell dell fell hell jell sell tell well  
bend fend lend mend pend rend send tend vend  
dice lice mice nice rice vice  
bide hide ride side tide wide  
bight fight light might night right sight tight  
bile file mile pile rile tile wile vile  
bill dill fill gill hill kill mill pill till will  
bind find kind mind wind  
dine fine line mine nine pine sine wine vine  
bite cite kite lite mite rite site  
bold cold fold gold hold mold sold told  
bone cone done gone lone none sone tone  
bore core fore gore lore more pore sore tore wore  
dose hose lose nose pose rose  
bound found hound mound pound round sound wound  
cure jure lure pure sure

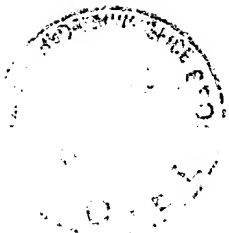


FIGURE 9A

12 )

|   |         |         |         |         |          |     |
|---|---------|---------|---------|---------|----------|-----|
| A | back    | bad     | bag     | balance | ball     | ban |
|   | bank    | bar     | base    | basic   | basis    | bat |
| E | bed     | beauty  | because | become  |          |     |
|   | before  | beg     | begin   | behave  | behind   |     |
|   | believe | below   | beside  | best    | bet      |     |
|   | better  | between | beyond  |         |          |     |
| I | bid     | big     | bill    | bin     | bird     | bit |
|   | bitter  |         |         |         |          |     |
| L | black   | block   | blond   | blow    | blue     |     |
| O | board   | body    | book    | both    | box      | boy |
| R | break   | bring   | broad   | brown   |          |     |
| U | bug     | build   | burn    | bus     | business | X Z |

FIGURE 9B

12 )

|      |         |          |          |         |          |         |
|------|---------|----------|----------|---------|----------|---------|
| BA B | babe    | baby     | baboon   | C       | bacteria |         |
| D    | badge   | F        | baffle   | G       | bagel    | baggage |
| I    | bail    | bait     | L        | balance | bald     | ball    |
|      | balloon |          |          |         |          |         |
|      | ballot  | M        | bamboo   | N       | band     | bandit  |
|      | bang    | bankrupt | banner   | banquet | banter   |         |
| R    | barb    | barbeque | barber   | bare    | bargin   |         |
|      | barge   | barley   | bark     | barn    | baron    | barrel  |
|      | barren  | barrier  | barter   | S       | baseball | bash    |
|      | basket  | bass     | bassinet | bassoon | bastion  |         |
| T    | batch   | bath     | baton    | batten  | batter   | battle  |
| U    | bauble  | W        | bawd     | bawl    | Y        | bay     |
|      | bayonet |          |          |         |          |         |

FIGURE 9C

12 )

|      |         |          |          |          |         |         |
|------|---------|----------|----------|----------|---------|---------|
| BA B | baby    | C        | back     | bacteria | D       | bad     |
|      | badge   | F        | baffle   | G        | bag     | baggage |
| I    | bail    | bait     | L        | balance  | bald    | ball    |
|      | ballot  |          |          |          |         |         |
| M    | bamboo  | N        | ban      | band     | bandit  | bang    |
|      | bank    | bankrupt | banner   | banquet  | banter  |         |
| R    | bar     | barbeque | barber   | bare     | bargin  |         |
|      | barge   | barley   | bark     | barn     | baron   | barrel  |
| S    | base    | baseball | bash     | basic    | basis   |         |
|      | basket  | bass     | bassinet | bassoon  | bastion |         |
| T    | bat     | batch    | bath     | baton    | batter  | battle  |
| U    | bauble  | W        | bawd     | bawl     | Y       | bay     |
|      | bayonet |          |          |          |         |         |





FIGURE 10

12

back backs backed backing backer  
**B** **A** **B** babble babe baby baboon  
**C** baccalaureate baccarat bacchanal bachelor bacillus backgammon backlog  
 bacon bacteria  
**D** bad bade badge badminton  
**F** baffle  
**G** bag bagel baggage baggy bagpipe  
**I** bail bailiff bailiwick bait  
**K** bake  
**L** balance balcony bald bale balk ball ballad ballast ballet ballistic balloon  
 ballot ballyhoo balm baloney balsa balsam  
**M** bamboo  
**N** ban banal banana band bandage bandbox bandit bandy bane bang bangle  
 banish banister banjo bank bankrupt banner banquet banshee bantam  
 banter banzai  
**P** baptism Baptist baptize  
**R** bar barb barbarian barbaric barbeque barbell barber barbiturate bard bare  
 bargain barge baritone barium barley bark barn barnacle barometer baron  
 baroque barracks barracuda barrage barrel barren barricade barrier barrister  
 barrow bartender barter  
**S** base baseball bash basic basin basis bask basket bass bassinet basso  
 bassoon bastard bast baste bastille bastion  
**T** bat batch bath bathe bathos baton battalion batten batter battery battle  
**U** bauble  
**W** bawd bawdy bawl  
**Y** bay bayonet bayou  
**Z** bazaar bazooka

FIGURE 11A

BAXXBXCbabble0babe0baby0baboon0CXbaccalaureate0baccarat0bacchanal0bachelo  
 r0bacillus0backgammon0backlog0bacon0bacteria0DXbad0bade0badge0badminton0FX  
 baffle0GXbag0bagel0baggage0baggy0bagpipe0IXbail0bailiff0bailiwick0bait0KXbake0  
 LXbalance0balcony0bald0bale0balk0ball0ballad0ballast0ballet0ballistic0balloon0ballot  
 0ballyhoo0balm0baloney0balsa0balsamMXbamboo0NXban0banal0banana0band0band  
 age0bandbox0bandit0bandy0bane0bang0bangle0banish0banister0banjo0bank0bankrupt  
 0banner0banquet0banshee0bantam0banter0banzai0PXbaptism0baptist0baptize0RXbar0  
 barb0barbarian0barbaric0barbeque0barbell0barber0barbiturate0bard0bare0bargain0barg  
 e0baritone0barium0barley0bark0barn0barnacle0barometer0baron0baroque0barracks0ba  
 rracuda0barrage0barrel0barren0barricade0barrier0barrister0barrow0bartender0barter0S  
 Xbase0baseball0bash0basic0basin0basis0bask0basket0bass0bassinet0basso0bassoon0b  
 astard0bast0baste0bastille0bastion0TXbat0batch0bath0bathe0bathos0baton0battalion0b  
 atten0batter0battery0battle0UXbauble0WXbawd0bawdy0bawl)YXbay0bayonet0bayou  
 0ZXbazaar0bazooka0BEXXFXbefore0

FIGURE 11B

BAXXBXble0e0y0boon0CXhelor0con0cterialDX0ge0minton0FXfle0GX0gage0pipe0I  
 Xl0liff0liwick0t0KXe0LXance0cony0d0e0k0l0lad0last0let0istic0loon0lot0lyhoo0m0on  
 ey0sa0sam0MXboo0NX0d0dage0dbox0dit0dy0g0gle0ish0ister1k0rupt0ner1quet0tam0t  
 er1PXtism0ist0tizeRX0b0barian0baric1beque0ber1bell0ber1biturate0d0e0gain0ge0iton  
 e0ium0ley0k0n0nacle0ometer1on0oque0racks0racuda0rage0rellren0ricade0rier0rister1  
 row0tender1ter1SXe0eball0sh0ic1in1is1k0ket1s0sinet1so0soon0tard0te0t0tille0tionTX  
 0ch0h0he0hos0on0talion0ten1ter1teryotle0UXuble0WXd0dy0l0YX0onet1ou0ZXaar0o  
 oka0BEXXXFXore0

FIGURE 12A

**BAB** B babble E babe Y baby  
O baboon  
**BAC** C baccalaureate baccarat  
 bacchanal H bachelor I bacillus  
K backgammon backlog O bacon  
T bacteria

FIGURE 12B

**BAS** E base baseball H bash  
I basic basin basis K bask  
 basket S bass bassinet basso  
 bassoon T bastardy bast baste  
 bastille bastion  
**BAT** bat C batch H bath bathe  
 bathos O baton T battalion batten  
 batter battery battle  
**BAU** B bauble D baud X bauxite

